



Field video laryngoscope (RES-Q-SCOPE)

Abstract

A multiple function laryngoscope to be used for the safe intubation of a patient's trachea during a respiratory emergency or as an elective procedure. A two section instrument. Proximally, a reusable handle that houses a rechargeable battery, electronic circuits that feed a distal digital image to variable position LCD screen or viewing port, switches and low battery indicator light. Distally, the handle electrically couples with a disposable curved scabbard. The scabbard features a dorsal endotracheal tube channel with a wavy opening which allows preloading and gentle extraction of different size endotracheal tubes once the patient's trachea has been intubated. The scabbard's distal end strategically houses a distal sweeper that engages the epiglottis and exposes the glottis, an opening for the exit of a preloaded endotracheal tube, a LED light, a suction/oxygenation port, and a lens coupled with a digital imaging system (CMOS) to digitize and transport a distant wide field of view. Safe LCD view of one or serial rapid intubations are possible by rapidly replacing for a clean disposable scabbard in case of multiple emergencies.